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23850 7590 03/08/2010 KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W. Suite 400 WASHINGTON, DC 20005				
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/541,746

**Applicant(s)**

BABA ET AL.

**Examiner**

MICHAEL PEPITONE

**Art Unit**

1796

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 January 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1, 2, 4, 6 and 8-37 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4, 6 and 8-37 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/GS/US)  
Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/20/10 has been entered.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-2, 4, 6, and 8-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Baba et al.* (WO 01/171415) in view of *Shibata et al.* (US 4,547,543), when taken with *Katagiri et al.* (JP 06-214197). For the purpose of examination, *Baba et al.* (US 6,638,991) was used as the English translation of *Baba et al.* (WO 01/171415); an English machine translation of *Katagiri et al.* (JP 06-214197) was used.

Regarding claims 1-2, 4, 6, 8, and 18: *Baba et al.* teaches an ocular lens material {contact lens [instant claim 18]} (1:5-12) comprising a polydimethylsiloxane compound having ethylenically unsaturated group bonded to the main chain with urethane bonds (2:60-4:45; 7:30-67), a pyrrolidone derivative {N-vinylpyrrolidone} (4:18; 9:58-63), wherein the pyrrolidone derivative is present in an amount of 7.5-40% [instant claim 2] (10:24-56; Tables 1 and 3 {col. 27-28}).

*Baba et al.* does not teach 1-methyl-3-methylene-2-pyrrolidone as the pyrrolidone derivative. However, *Shibata et al.* teaches a contact lens composition comprising 1-methyl-3-methylene-2-pyrrolidone [instant claim 4] (1:1-5; 1:54-62, 2:1-14), in conjunction with N-VP, and in an amount of 30 to 70 parts by weight of total hydrophilic monomers (2:46-61). *Baba et al.* and *Shibata et al.* are analogous art because they are concerned with a similar technical difficulty, namely the preparation of contact lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to have combined 1-methyl-3-methylene-2-pyrrolidone, as taught by *Shibata et al.* in the invention of *Baba et al.*, and would have been motivated to do so since *Shibata et al.* suggests that such pyrrolidones provide good polymerizability with (meth)acryloyl groups, thereby decreasing poor optical and mechanical properties resulting from phase separation (1:40-62), as well as no substantial elution of a non-

crosslinked N-MMP polymer is observed, and thus, the contact lens is highly safe for the eyes (4:63-5:3).

At the time of invention a person of ordinary skill in the art would have found it obvious to have combined 1-methyl-5-methylene-2-pyrrolidone [instant claim 6], and 5-methyl-3-methylene-2-pyrrolidone [instant claim 8], which are regioisomers of 1-methyl-3-methylene-2-pyrrolidone. A prima facie case of obviousness may be made when chemical compounds have very close structural similarities and similar utilities. “An obviousness rejection based on similarity in chemical structure and function entails the motivation of one skilled in the art to make a claimed compound, in the expectation that compounds similar in structure will have similar properties.” In re Payne, 606 F.2d 303, 313, 203 USPQ 245, 254 (CCPA 1979) [see MPEP 2144.09].

Katagiri *et al.* provides evidence of copolymerization of N-methyl-3-methylene-2-pyrrolidone with silicone (meth)acrylates in contact lens formulations (¶ 1, 18-19, 23-28, 48).

Regarding claim 9: Baba *et al.* teaches the repeating number of polydimethylsiloxane is 28 (7:28-45, compound A-1).

Regarding claim 10: Baba *et al.* teaches the basic claimed composition [as set forth above with respect to claim 1].

The Office realizes that all the claimed effects or physical properties are not positively stated by the reference. However, the reference teaches all of the claimed reagents and was prepared under similar conditions. Therefore, the claimed effects and physical properties, i.e. a tensile modulus of 0.2 to 0.8 MPa, and a stress relaxation under loading a fixed load for 30 seconds is 8 to 15%, would implicitly be achieved by a composition with all the claimed

ingredients. If it is the applicants' position that this would not be the case: (1) evidence would need to be presented to support applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties and effects with only the claimed ingredients.

Regarding claims 11-12: *Baba et al.* teaches the water content is 29-50% by weight (Tables 4 and 6 {col. 29 and 30}).

Regarding claims 13-14: *Baba et al.* teaches tris(trimethylsiloxy)silylpropyl methacrylate (8:27-9:1).

Regarding claims 15-16: *Baba et al.* teaches N,N-dimethylacrylamide (10:11-18).

Regarding claim 17: *Baba et al.* at least one crosslinking agent (4:25-32).

Claims 19-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Baba et al.* (WO 01/171415) in view of *Shibata et al.* (US 4,547,543), when taken with *Katagiri et al.* (JP 06-214197). For the purpose of examination, *Baba et al.* (US 6,638,991) was used as the English translation of *Baba et al.* (WO 01/171415); an English machine translation of *Katagiri et al.* (JP 06-214197) was used.

Regarding claim 19: *Baba et al.* teaches a method for preparing ocular lens material (1:5-12) comprising mixing a polydimethylsiloxane compound having ethylenically unsaturated group bonded to the main chain with urethane bonds (2:60-4:45; 7:30-67), a pyrrolidone derivative {N-vinylpyrrolidone}, and a photopolymerization initiator (20:63-21:16) or thermal polymerization initiator (19:47-20:8); the mixture was introduced to a mold; thermal or photo cured (22:40-23:25); a surface treatment procedure was employed to impart hydrophilic

properties and lipid stain resistance (22:10-16); the residual monomers were extracted from the lens (25:17-45); the ocular lens material was hydrated (22:55-57).

Baba *et al.* does not teach 1-methyl-3-methylene-2-pyrrolidone as the pyrrolidone derivative. However, Shibata *et al.* teaches a contact lens composition comprising 1-methyl-3-methylene-2-pyrrolidone [instant claims 19] (1:1-5; 1:54-62, 2:1-14). Baba *et al.* and Shibata *et al.* are analogous art because they are concerned with a similar technical difficulty, namely the preparation of contact lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to incorporate 1-methyl-3-methylene-2-pyrrolidone into the polymer-forming system of Baba and one would have been motivated to do so since Shibata *et al.* suggests that such pyrrolidones provide good polymerizability with (meth)acryloyl groups, thereby decreasing poor optical and mechanical properties resulting from phase separation (1:40-62) as well as no substantial elution of a non-crosslinked N-MMP polymer is observed, and thus, the contact lens is highly safe for the eyes (4:63-5:3).

Katagiri *et al.* provides evidence of copolymerization of N-methyl-3-methylene-2-pyrrolidone with silicone (meth)acrylates in contact lens formulations (§ 1, 18-19, 23-28, 48).

Regarding claim 20: Baba *et al.* teaches tris(trimethylsiloxy)silylpropyl methacrylate, and N,N-dimethylacrylamide (8:27-9:1; 10:11-18; 26:38-51; Tables 1-3).

Regarding claim 21: Baba *et al.* teaches a crosslinking agent (12:1-34; Tables 1 and 3 {col. 27-28}).

Regarding claim 22: Baba *et al.* teaches polymerizable UV absorbents and polymerizable dyes (16:66-17:3; 19:22-36).

Regarding claims 23-24: *Baba et al.* teaches 0.5 to 100 parts of a diluent {based on 100 parts monomer mixture}, specifically acetone (21:17-38).

Regarding claims 25-26: *Baba et al.* teaches the surface treatment procedure was a plasma treatment [instant claim 25] (22:10-16), and a plasma treatment with oxygen [instant claim 26] (22:10-16).

Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Baba et al.* (WO 01/171415) in view of *Shibata et al.* (US 4,547,543), as applied to claim 26 above, and further in view of *Valiant, JR. et al.* (US 2002/0102415). For the purpose of examination, *Baba et al.* (US 6,638,991) was used as the English translation of *Baba et al.* (WO 01/171415).

Regarding claim 27: *Baba et al.* and *Shibata et al.* renders the basic claimed method obvious [as set forth above with respect to claim 26].

*Baba et al.* does not teach a plasma treatment with a mixture of oxygen and water [instant claim 27]. However, *Valiant, JR. et al.* teaches a method for surface treating contact lens material comprising a plasma treatment with a mixture of oxygen and water {air drawn through 5% hydrogen peroxide solution} [instant claim 27] (¶ 10, 58). *Baba et al.* and *Valiant, JR. et al.* are analogous art because they are concerned with a similar technical difficulty, namely plasma treatment of contact lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to have combined plasma treatments in the presence of oxygen and water, as taught by *Valiant, JR. et al.* in the invention of *Baba et al.*, and would have been motivated to do so since *Valiant, JR. et al.* suggests that such strong oxidizing plasma promote adhesion for bonding of the subsequent carbon deposition layer (¶ 58).



Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baba *et al.* (WO 01/171415) in view of Shibata *et al.* (US 4,547,543), as applied to claim 26 above, and further in view of Hayashi *et al.* (US 6,503,632). For the purpose of examination, Baba *et al.* (US 6,638,991) was used as the English translation of Baba *et al.* (WO 01/171415).

Regarding claim 28: Baba *et al.* and Shibata *et al.* renders the basic claimed method obvious [as set forth above with respect to claim 26].

Baba *et al.* does not teach a plasma treatment with a mixture of oxygen and tetrafluoromethane [instant claim 28]. However, Hayashi *et al.* teaches a method for surface treating contact lens material comprising a plasma treatment with a mixture of oxygen and tetrafluoromethane [instant claim 28] (1:10-18; 21:7-15). Baba *et al.* and Hayashi *et al.* are analogous art because they are concerned with a similar technical difficulty, namely plasma treatment of contact lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to have combined plasma treatments in the presence of oxygen and tetrafluoromethane, as taught by Hayashi *et al.* in the invention of Baba *et al.*, and would have been motivated to do so since Hayashi *et al.* suggests that such plasma treatment provide a substrate with substituents which a chemical reaction can proceed {the surface of the molded article may be chemically bonded further with a polymer or monomer} (21:16-23).

Claims 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baba *et al.* (WO 01/171415) in view of Shibata *et al.* (US 4,547,543), as applied to claim 26 above, and

further in view of Walther *et al.* (US 6,379,004). For the purpose of examination, Baba *et al.* (US 6,638,991) was used as the English translation of Baba *et al.* (WO 01/171415).

Regarding claims 29-30: Baba *et al.* and Shibata *et al.* renders the basic claimed method obvious [as set forth above with respect to claim 26].

Baba *et al.* does not teach a plasma treatment with a mixture of oxygen and organic silane [instant claim 29], specifically tetramethoxysilane [instant claim 30]. However, Walther *et al.* teaches a method for surface treating ophthalmic lens material comprising a plasma treatment with a mixture of oxygen and tetramethoxysilane [instant claims 29-30] (1:4-6; 10:48-62). Baba *et al.* and Walther *et al.* are analogous art because they are concerned with a similar technical difficulty, namely plasma treatment of ophthalmic lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to have combined plasma treatments in the presence of oxygen and tetramethoxysilane, as taught by Walther *et al.* in the invention of Baba *et al.*, and would have been motivated to do so since Walther *et al.* suggests that such plasma treatment provide a substrate with both an interface layer and a grease protection layer (10:48-50).

Claims 31-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baba *et al.* (WO 01/171415) in view of Shibata *et al.* (US 4,547,543), as applied to claim 26 above, and further in view of Turek *et al.* (US 2002/0137811). For the purpose of examination, Baba *et al.* (US 6,638,991) was used as the English translation of Baba *et al.* (WO 01/171415).

Regarding claims 31-35: Baba *et al.* and Shibata *et al.* renders the basic claimed method obvious [as set forth above with respect to claim 26].

Baba *et al.* does not teach a plasma treatment with a mixture of oxygen and methane [instant claim 31], and a mixture of oxygen, nitrogen, and methane [instant claim 32]. Baba *et al.* does not teach a surface treatment that is a coating method of a hydrophilic polymer coating [instant claim 33], specifically plasma polymerization of hydrophilic monomers [instant claim 34], and plasma-induced graft polymerizations [instant claim 35]. However, Turek *et al.* teaches a method for surface treating ophthalmic lens material comprising a plasma treatment with a mixture of oxygen and methane [instant claim 31], and a mixture of air {oxygen and nitrogen} and methane [instant claim 32] (§105-110). Turek *et al.* also teaches a method for surface treating ophthalmic lens material comprising a plasma treatment coating method of a hydrophilic polymer coating [instant claim 33], specifically plasma polymerization of hydrophilic monomers [instant claim 34], and plasma-induced graft polymerizations [instant claim 35] (§105-110). Baba *et al.* and Turek *et al.* are analogous art because they are concerned with a similar technical difficulty, namely the surface treating of ophthalmic lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to have combined plasma treatments in the presence of air and methane, and plasma induced polymerizations, as taught by Turek *et al.* in the invention of Baba *et al.*, and would have been motivated to do so since Turek *et al.* suggests that such plasma treatments provide a surface which is more ophthalmically compatible (§106).

Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baba *et al.* (WO 01/171415) in view of Shibata *et al.* (US 4,547,543), as applied to claim 19 above, and further in view of Niwa *et al.* (US 5,516,467). For the purpose of examination, Baba *et al.* (US 6,638,991) was used as the English translation of Baba *et al.* (WO 01/171415).

Regarding claim 36: Baba *et al.* and Shibata *et al.* renders the basic claimed method obvious [as set forth above with respect to claim 19].

Baba *et al.* does not teach a method of coloring the ocular lens material by using a vat dye [instant claim 36]. However, Niwa *et al.* teaches a method for coloring contact lenses by using a vat dye [instant claim 36] (1:4-8; 2:26-49). Baba *et al.* and Niwa *et al.* are analogous art because they are concerned with a similar technical difficulty, namely the coloring of contact lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to have combined vat dyes, as taught by Niwa *et al.* in the invention of Baba *et al.*, and would have been motivated to do so since Niwa *et al.* suggests that such vat dyes can be uniformly dispersed in the monomer mixture (2:64-3:10; 3:30-40).

Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baba *et al.* (WO 01/171415) in view of Shibata *et al.* (US 4,547,543), when taken with Katagiri *et al.* (JP 06-214197). For the purpose of examination, Baba *et al.* (US 6,638,991) was used as the English translation of Baba *et al.* (WO 01/171415); an English machine translation of Katagiri *et al.* (JP 06-214197) was used.

Regarding claim 37: Baba *et al.* teaches a method for preparing ocular lens material (1:5-12) comprising mixing a polydimethylsiloxane compound having ethylenically unsaturated group bonded to the main chain with urethane bonds (2:60-4:45; 7:30-67), a pyrrolidone derivative {N-vinylpyrrolidone}, and a photopolymerization initiator (20:63-21:16) or thermal polymerization initiator (19:47-20:8); the mixture was introduced to a mold; thermal or photo cured (22:40-23:25); a surface treatment procedure was employed to impart hydrophilic

properties and lipid stain resistance (22:10-16); the residual monomers were extracted from the lens (25:17-45); the ocular lens material was equilibrated with physiological saline (22:55-57).

Baba *et al.* does not teach 1-methyl-3-methylene-2-pyrrolidone as the pyrrolidone derivative. However, Shibata *et al.* teaches a contact lens composition comprising 1-methyl-3-methylene-2-pyrrolidone (1:1-5; 1:54-62, 2:1-14). Baba *et al.* and Shibata *et al.* are analogous art because they are concerned with a similar technical difficulty, namely the preparation of contact lenses. At the time of invention a person of ordinary skill in the art would have found it obvious to incorporate 1-methyl-3-methylene-2-pyrrolidone into the polymer-forming system of Baba and one would have been motivated to do so since Shibata *et al.* suggests that such pyrrolidones provide good polymerizability with (meth)acryloyl groups, thereby decreasing poor optical and mechanical properties resulting from phase separation (1:40-62) as well as no substantial elution of a non-crosslinked N-MMP polymer is observed, and thus, the contact lens is highly safe for the eyes (4:63-5:3).

Katagiri *et al.* provides evidence of copolymerization of N-methyl-3-methylene-2-pyrrolidone with silicone (meth)acrylates in contact lens formulations (¶ 1, 18-19, 23-28, 48).

### ***Response to Arguments***

Applicant's arguments filed 1/20/10 have been fully considered but they are not persuasive. The rejection of claims 1-2, 4, 6, and 8-37 based on Baba *et al.* (US 6,638,991) and Shibata *et al.* (US 4,547,543) is maintained for reason of record and following response.

Baba *et al.* (US '991) discloses a contact lens material comprising a pyrrolidone derivative [N-vinylpyrrolidone, N-VP] (4:18; 9:58-63) and a polydimethylsiloxane compound having ethylenically unsaturated groups {(meth)acryloyl} bonded to the main chain with

urethane bonds (7:25-8:2) {corresponds to compound (A) of instant claim 1}. Shibata *et al.* (US '543) clearly discloses N-methyl-3-methylene-2-pyrrolidone, N-MMP, to be used in conjunction with N-VP to improve the hardness and dimensional stability of the contact lens (2:46-56), as well as no substantial elution of a non-crosslinked N-MMP polymer is observed, and thus, the contact lens is highly safe for the eyes (4:63-5:3). N-MMP is to be used with N-VP, and not substituted for N-VP.

In response to applicant's arguments regarding Shibata *et al.* lack of suggestion that N-MMP would have a beneficial effect on systems (Baba *et al.* (US '991)) using polysiloxane macromonomers, the disclosure of Shibata *et al.* clearly indicates N-MMP is highly copolymerizable with (meth)acryloyl moieties, resulting in a copolymer that is very well crosslinked and has little possibility of non-crosslinked N-MMP eluting. When N-MMP is used in combination with N-VP, the resulting contact lens material has superior transparency and optical properties (2:22-42). Whether or not a polysiloxane macromonomer is present is immaterial.

Katagiri *et al.* (JP 06-214197) was relied on to provide evidence of copolymerization of N-methyl-3-methylene-2-pyrrolidone with silicone (meth)acrylates in contact lens formulations (§ 1, 18-19, 23-28, 48) {the prior art discloses polymerization of silicone (meth)acrylates with N-methyl-3-methylene-2-pyrrolidone; it is known to copolymerize silicone (meth)acrylates and N-methyl-3-methylene-2-pyrrolidone for the formation of soft contact lenses}. Katagiri *et al.* (JP '197) was not used to teach instant compound (A); Baba *et al.* (US '991) discloses a polydimethylsiloxane compound having ethylenically unsaturated groups {(meth)acryloyl}

bonded to the main chain with urethane bonds (7:25-8:2) {corresponds to compound (A) of instant claim 1} [see above].

Applicants' argument does not address the combination of Baba *et al.* (US '991) in view of Shibata *et al.* (US '543). It is noted that Katagiri *et al.* (JP '197) is used only as a teaching reference to show copolymerization of N-methyl-3-methylene-2-pyrrolidone with silicone (meth)acrylates in contact lens formulations.

Regarding examples 1 and 17 of the present invention {see Applicant's remarks, pg. 14-16. see: specification, pg. 60-63; Table 1, 6}, the present examples appears to provide superior results with respect to reduced elution of unpolymerized monomers, surface wettability, etc. However, the specific composition employed in ex. 1 {27 wt% TRIS, 23 wt% macromer A1, 10 wt% DMAA, 40 wt% 1,3-MMP, 0.4 wt% EDMA, 0.4 wt% HMPPO} and ex. 17 {25 wt% TRIS, 25 wt% macromer A1, 12.5 wt% DMAA, 37.5 wt% 1,3-MMP, 0.4 wt% EDMA, 0.4 wt% HMPPO, 0.01 wt% APMA} are not commensurate in scope with the breadth of compositions included in the instant claims. The claims are broader than applicant's argument and therefore not germane to the scope of the instant claims.

Furthermore, the comparative examples {see Applicants' remarks, Tables 2-4} employed do not represent the combination of the prior art of record, Baba *et al.* (US '991) and Shibata *et al.* (US '543). None of the comparative examples represents the combination of Baba *et al.* (US '991) {polydimethylsiloxane compound having ethylenically unsaturated group bonded to the main chain with urethane bond, and N-vinylpyrrolidone} and Shibata *et al.* (US '543) {1-methyl-3-methylene-2-pyrrolidone (in conjunction with N-VP)}; i.e. data showing a comparison of the instant invention with the combined teaching of the prior art of record {see claim 1 above;

polydimethylsiloxane compound having ethylenically unsaturated group bonded to the main chain with urethane bond, N-vinylpyrrolidone, and 1-methyl-3-methylene-2-pyrrolidone} was not presented in Applicant's arguments.

In view of the fact that the data from Tables 2-4 did not compare the closest prior art record, and the specific formulations 1 and 17 employed are of narrower scope than the broad genus of claim 1, it is not possible for the examiner to conclude the data from Tables 2-4 represent unexpected results over the prior art of record [see also MPEP 716.01(c), 716.02(d), 2145; *In re Lindner*, 457 F.2d 506, 509, 173 USPQ 356, 359 (CCPA 1972); *In re Lindner*, 457 F.2d 506, 508, 173 USPQ 356, 358 (CCPA 1972)].

Valiant, JR. *et al.* (US 2002/0102415) was relied on for disclosing a method for surface treating contact lens material comprising a plasma treatment with a mixture of oxygen and water {air drawn through 5% hydrogen peroxide solution} (¶ 10, 58).

Hayashi *et al.* (US 6,503,632) was relied on for disclosing a method for surface treating contact lens material comprising a plasma treatment with a mixture of oxygen and tetrafluoromethane (1:10-18; 21:7-15).

Walther *et al.* (US 6,379,004) was relied on for disclosing method for surface treating ophthalmic lens material comprising a plasma treatment with a mixture of oxygen and tetramethoxysilane (1:4-6; 10:48-62).

Turek *et al.* (US 2002/0137811) was relied on for disclosing a method for surface treating ophthalmic lens material comprising a plasma treatment with a mixture of oxygen and methane, and a mixture of air {oxygen and nitrogen} and methane (¶105-110).



Niwa *et al.* (US 5,516,467) was relied on for disclosing a method for coloring contact lenses by using a vat dye (1:4-8; 2:26-49).

### ***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pepitone whose telephone number is 571-270-3299. The examiner can normally be reached on M-F, 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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